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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/811,852	03/30/2004	Hyun Sook Kim	1594.1363	2332		
21171	7590	09/12/2008	EXAMINER			
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005				PERRIN, JOSEPH L		
ART UNIT		PAPER NUMBER				
1792						
MAIL DATE		DELIVERY MODE				
09/12/2008		PAPER				

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Supplemental Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/811,852	KIM ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Joseph L. Perrin, Ph.D.	1792	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS**. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to amendment filed 01 May 2008.
2.  The allowed claim(s) is/are 1,3,4,6-12,19-21,23 and 24.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

## **SUPPLEMENTAL EXAMINER'S AMENDMENT**

### ***Examiner's Amendment***

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Ms. Kari Footland on 22 August 2008. The changes were made to coincide with the specified language discussed in the previous telephone interview which were correctly entered for claim 23 but inadvertently entered incorrectly for claims 1, 19 & 24 in the previous Examiner's Amendment.
3. The application has been amended as follows:
  1. (Currently Amended) A drum washing machine, comprising:
    - a key input unit receiving an input from a user;
    - a water tub;
    - a rotary tub rotatably provided in the water tub;
    - a detergent feed pipe having a first end connected to the water tub and a second end disposed at an inlet of the rotary tub;
    - a control unit determining whether a detergent used is a powdered detergent or a liquid detergent based on the input from the user; and

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a detergent feed unit to feed the detergent contained in the water tub into the rotary tub through the detergent feed pipe, the control unit controlling the detergent feed unit to dissolve the detergent before feeding the detergent into the rotary tub in response to a determination from the control unit that the detergent is a powdered detergent;

wherein the detergent feed unit comprises a control unit to drive a pump provided at the detergent feed pipe to ~~substantially~~ sufficiently dissolve the powdered detergent and then feed the dissolved powdered detergent into the rotary tub.

19. (Currently Amended) A drum washing machine, comprising:
  - an key input unit receiving an input from a user;
  - a water tub;
  - a rotary tub provided in the water tub;
  - a control unit determining whether a detergent used is a powdered detergent or a liquid detergent based on the input received through the key input unit; and
  - a detergent feed unit to feed the detergent contained in the water tub into the rotary tub, the control unit causing the detergent feed unit to drive a pump provided at the detergent feed pipe to ~~substantially~~ sufficiently dissolve the detergent before feeding the detergent into the rotary tub in response to a determination from the control unit that the detergent is a powdered detergent.

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24. (Currently Amended) A drum washing machine, comprising:

- a key input unit receiving an input from a user;
- a water tub;
- a rotary tub provided in the water tub; and
- a detergent feed unit;
- a control unit making a determination based on the input received from the key input unit as to whether a detergent is a first type of detergent or a second type of detergent and selectively causing the first type of detergent to be dissolved in the detergent feed unit before being fed from the water tub to the rotary tub without being dissolved in the detergent feed unit;

wherein the detergent feed unit comprises a control unit to drive a pump provided at the detergent feed pipe to substantially sufficiently dissolve the powdered detergent and then feed the dissolved powdered detergent into the rotary tub.

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Perrin, Ph.D. whose telephone number is (571)272-1305. The examiner can normally be reached on M-F 8:00-4:30.
5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph L. Perrin/  
Joseph L. Perrin, Ph.D.  
Primary Examiner  
Art Unit 1792

JLP